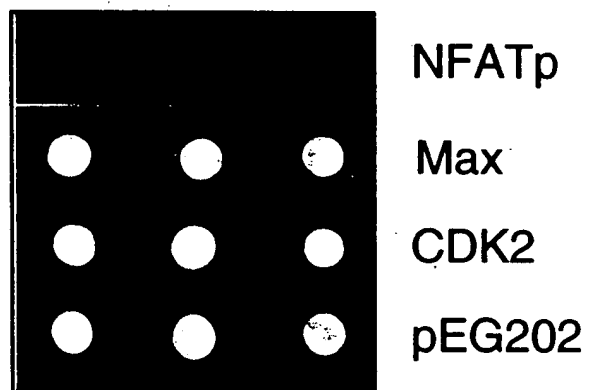




FIG. 1



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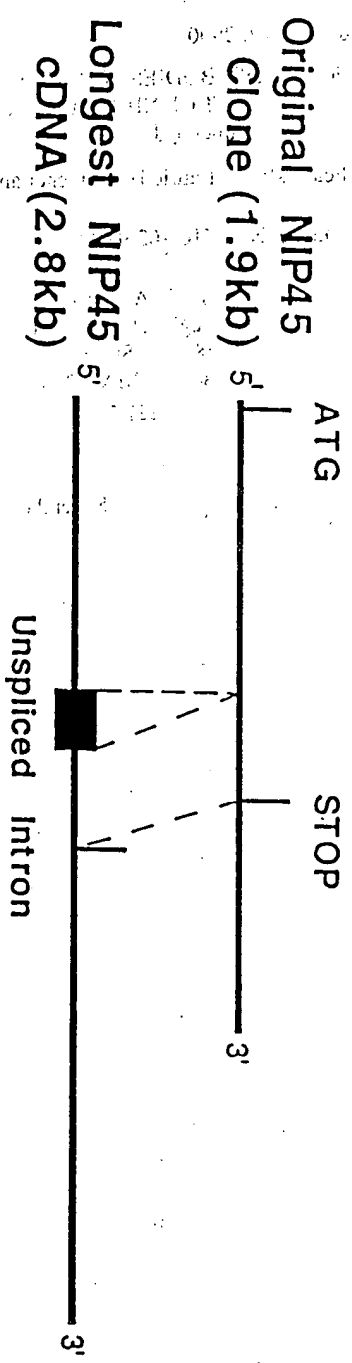


FIG.3

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FIG. 4A

ACAGTGTGGGAGATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCC 48
TGTCACACCCTCTACCGCCTTGGTGA CTCCCCTGCACCAGGCTCCAGG
M A E P L R G R G P R S 12
CGCGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCGCCCGTGGCCGGTGT 96
GCGCCACCGGCTCCGCGAGCCTCTCGGGCTCCGCGGGCACCGGCCACA
R G G R G A R R A R G A R G R C 28
CCTCGCGCCCGGCAGTCTCCGGGTAGGCTCATTCCAGACACCGTGCTT 144
GGAGCGCGGGCCGTGAGAGGCCGATCCGAGTAAGGTCTGTGGCACGAA
P R A R Q S P A R L I P D T V L 44
GTGGA CTTGGTCA GTGACAGCGACGAAGAGGTCTTGAAGTCGCAGAC 192
CACCTGAACCAGTCACTGTCTGCTTCTCCAGAACCTTCAGCGTCTG
V D L V S D S D E E V L E V A D 60
CCAGTAGAGGTGCCGGTCGCCCCGCTCCCCGCGCCGGCTAAACCTGAG 240
GGTCATCTCCACGGCCAGCGGGCGGAGGGGCGCGGCCGATTGGA CT
P V E V P V A R L P A P A K P E 76
CAGGACAGCGACAGTGAAGGGGCGGCCGAGGGGCCTGCGGGA 288
GTCCTGTCGCTGTCACTGTCACTTCCCCGCGGCTCCCCGACGCCCT
Q D S D S D S E G A A E G P A G 92
GCCCCGCGTACATTGGTGCGACGGCGGCGGCGGCGGCTGCTGGATCCC 336
CGGGGCGCATGTAACCACGCTGCCGCCGCCGCCGACGACCTAGGG
A P R T L V R R R R R R L L D P 108
GGAGAGGCGCCGGTGGTCCCAGTGTACTCCGGAAGGTACAGAGCAGC 384
CCTCTCCGCGGCCACCAGGGTCACATGAGGCCCTTCCATGTCTCGTCG
G E A P V V P V Y S G K V Q S S 124
CTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA 432
GAGTTGGAGTAAGGTCTATTAAGTAGGGAGAACTTTGACACGGGAAGT
L N L I P D N S S L L K L C P S 140
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCT 480
CTCGGACTTCTACTCCGTCTAGACTGTTTAAGACCGTCAAGAGGGAGA
E P E D E A D L T N S G S S P S 156
GAGGATGATGCCCTGCCTTCAGGTTCTCCCTGGAGAAAGAAGCTCAGA 528
CTCCTACTACGGGACGGAAGTCCAAGAGGGACCTTTTCTTCGAGTCT
E D D A L P S G S P W R K K L R 172

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FIG. 4B

AAGAAGTGTGAGAAAGAAGAAAAGAAAATGGAAGAGTTTCCGGACCAG 576
TTCTTCACACTCTTTCTTCTTTTCTTTTACCTTCTCAAAGGCCTGGTC
K K C E K E E K K M E E F P D Q 188
GACATCTCTCCTTTGCCCCAACCTTCGTCAAGGAACAAAAGCAGAAAG 624
CTGTAGAGAGGAAACGGGGTTGGAAGCAGTTTCTTGTTTTTCGTCTTTC
D I S P L P Q P S S R N K S R K 204
CATACGGAGGCGCTCCAGAAGCTAAGGGAAGTGAACAAGCGTCTCCAA 672
GTATGCCTCCGCGAGGTCTTCGATTCCCTTCACTTGTTCGCAGAGGTT
H T E A L Q K L R E V N K R L Q 220
GATCTCCGCTCCTGCCTGAGCCCCAAGCAGCACCAGAGTCCAGCCCTT 720
CTAGAGGCGAGGACGGACTCGGGGTTCGTCTGTGGTCTCAGGTCGGGAA
D L R S C L S P K Q H Q S P A L 236
CAGAGCACAGATGATGAGGTGGTCTAGTGGAAGGGCCTGTCTTGCCA 768
GTCTCGTGTCTACTACTCCACCAGGATCACCTTCCCGGACAGAACGGT
Q S T D D E V V L V E G P V L P 252
CAGAGCTCTCGACTCTTTTACACTCAAGATCCGGTGCCGGGCTGACCTA 816
GTCTCGAGAGCTGAGAAATGTGAGTTCTAGGCCACGGCCCGACTGGAT
Q S S R L F T L K I R C R A D L 268
GTGAGACTGCCTGTCAGGATGTCCGAGCCCCTTCAGAATGTGGTGGAT 864
CACTCTGACGGACAGTCCTACAGCCTCGGGGAAGTCTTACACCACCTA
V R L P V R M S E P L Q N V V D 284
CACATGGCCAATCATCTTGGGGTGTCTCAAACAGGATTCTTTTGCTT 912
GTGTACCGGTTAGTAGAACCCACAGAGGTTTGTCTTAAGAAAACGAA
H M A N H L G V S P N R I L L L 300
TTTGGAGAGAGTGAAGTGTCTCCTACTGCCACCCCTAGTACCCTAAAG 960
AAACCTCTCTCACTTGACAGAGGATGACGGTGGGGATCATGGGATTTC
F G E S E L S P T A T P S T L K 316
CTTGGAGTGGCTGACATCATTGATTGTGTGGTGTCTAGCAAGCTCTTCA 1008
GAACCTCACCAGCTGTAGTAACACACACCACGATCGTTTCGAGAAGT
L G V A D I I D C V V L A S S S 332
GAGGCCACAGAGACATCCCAGGAGCTCCGGCTCCGGGTGCAGGGGAAG 1056
CTCCGGTGTCTCTGTAGGGTCTCGAGGCCGAGGCCACGTCCCCTTC
E A T E T S Q E L R L R V Q G K 348



FIG. 4C

GAGAAACACCAGATGTTGGAGATCTCACTGTCTCCTGATTCTCCTCTT 1104
CTCTTTGTGGTCTACAACCTCTAGAGTGACAGAGGACTAAGAGGAGAA
E K H Q M L E I S L S P D S P L 364

AAGGTTCTCATGTCCACTATGAGGAAGCCATGGGACTCTCTGGACAC 1152
TTCCAAGAGTACAGTGTGATACTCCTTCGGTACCCTGAGAGACCTGTG
K V L M S H Y E E A M G L S G H 380

AAGCTCTCCTTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTG 1200
TTCGAGAGGAAGAAGAACTACCTGTTTCGAAAGTCCGTTCCCTCGAC
K L S F F F D G T K L S G K E L 396

CCAGCTGATCTGGGCCTGGAATCCGGAGATCTCATCGAAGTCTGGGGC 1248
GGTCGACTAGACCCGGACCTTAGGCCTCTAGAGTAGCTTCAGACCCCG
P A D L G L E S G D L I E V W G 412

TGAAGCTCTCACCTGTTCGGACGCAAAGCCAAGACATGGAGACAATA 1296
ACTTCGAGAGTGGGACAAGCCTGCGTTTCGGTTCTGTACCTCTGTTAT

GCTCCCAATTTTATTATTGTGATTTTTTCGCCCCATAAGGGCTAACAGA 1344
CGAGGGTTAAAATAATAACACTAAAAGCGGGGTATTCCCGATTGTCT

AACTGAATTAGAACTTGTTTACTTATTTATTTCTGGTGCTGGGGATTG 1392
TTGACTTAATCTTGAACAAATGAATAAATAAGACCACGACCCCTAAC

AACCCAGACTATGCACATGCTAAGGATGTATGAAGTGGAGGCAAAAC 1440
TTGGGGTCTGATACGTGTACGATTCCTACATACTTCACCTCCGTTTTG

CAAGGCATTACCTTTAGCCAGCCTCTAGTAGACTGTAGTGTCAAGCAA 1488
GTTCCGTAATGGAAATCGGTGCGAGATCATCTGACATCACAGTTCGTT

GTGGCTACTTGGTAGTTGTGTGGCTCTGTGTATGTTTGTGCTGTATTT 1536
CACCGATGAACCATCAACACACCGAGACACATAAAACACGACATAAA

GGCAGCCCCTGGGGCACATAGAAGGGACCTTGGCTTCCCTACCATTTC 1584
CCGTCGGGGACCCCGTGTATCTTCCCTGGAACCGAAGGGATGGTAAAG

1584

1584

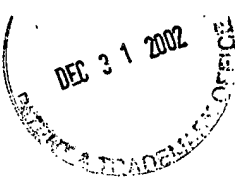


FIG. 4D

ACGTTGCTGGTGCCCTTTCCTTCATCAGATGACTTCTGTGAAGCTGC 1632
TGCAAGCGACCACGGGAAAGGAAGTAGTCTACTGAAGACACTTCGACG

CTATGTTGAGTGTGTTGAACTAAATGAGCTCTGCTTTGGGTGTCCAGG 1680
GATACAACTCACACAACCTTGATTTACTCGAGACGAAACCCACAGGTCC

CCTGGGGTTTGTGCCGCGAGTTGGAGCCAGCAGTGACTTCACTCTGACT 1728
GGACCCCAAACACGGCGTCAACCTCGGTCGTCACTGAAGTGAGACTGA

TGGGACTGAGAATGCATTTCTGGTGGAGACACTCGGGTGCAGAAATA 1776
ACCCTGACTCTTACGTAAAGGACCACCTCTGTGAGCCACGTCTTTAT

TAACAGAAGGTGACATACATGCTGAAGCTGAGGACTAGGTGCGAAAGTT 1824
ATTGTCTTCCACTGTATGTACGACTTCGACTCCTGATCCAGCTTTCAA

AACGACGTTGCATTTTCAGCCTTGGGTATCCTCTCTGCCTGCCAGGAC 1872
TTGCTGCAACGTAAAAGTCGGAACCCATAGGAGAGACGGACGGTCCTG

TCTAGCCAGTGTCTGGTACACACTTCTTGGCATGGACACCTAGGTGCGA 1920
AGATCGGTCACAGACCATGTGTGAAGAACCGTACCTGTGGATCCAGCT

CGCGGGCGCGATTTCGGCCGACTCGAG 1946
GCGCCCGCGCTAAGCCGGCTGAGCTC

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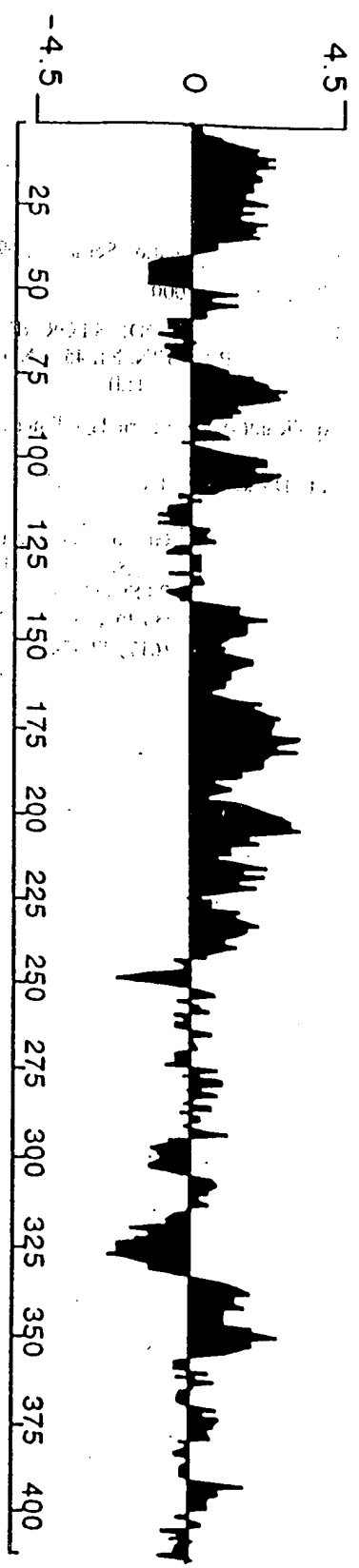
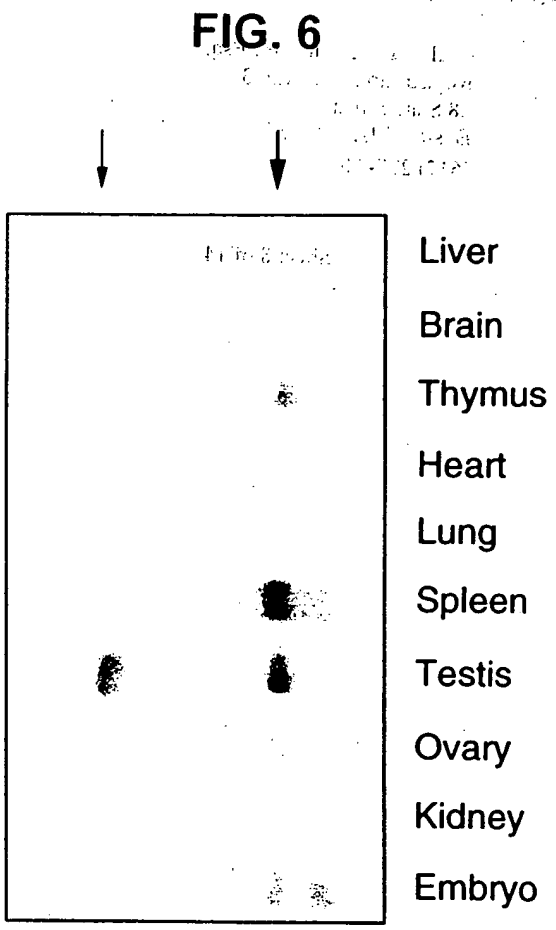


FIG. 5

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FIG. 6

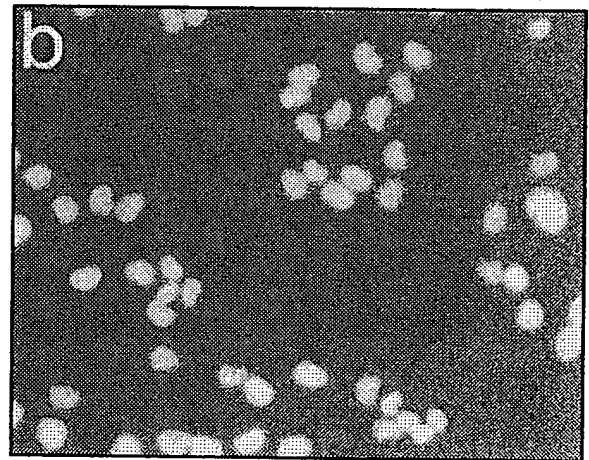
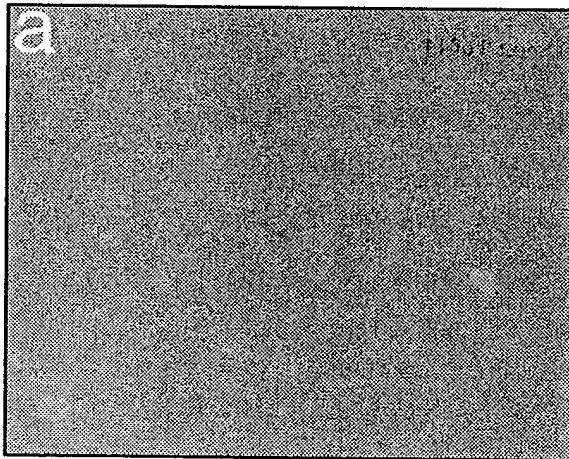


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FIG. 7A

FIG. 7B



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FIG. 7C

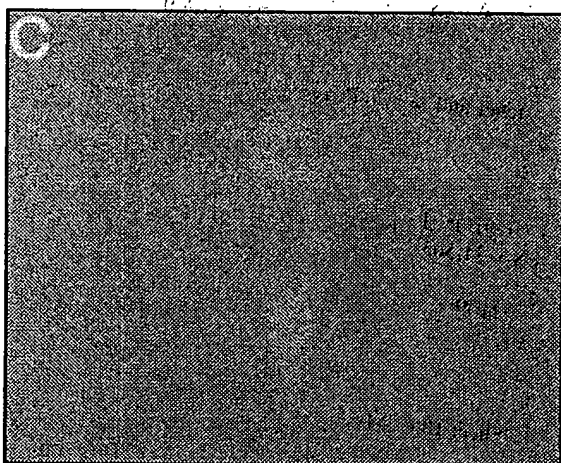


FIG. 7D

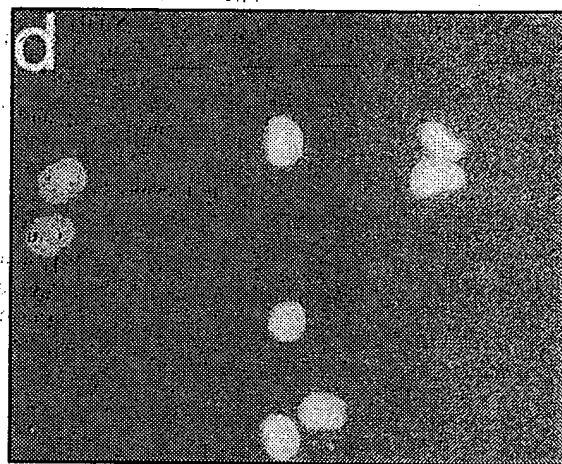


FIG. 7E

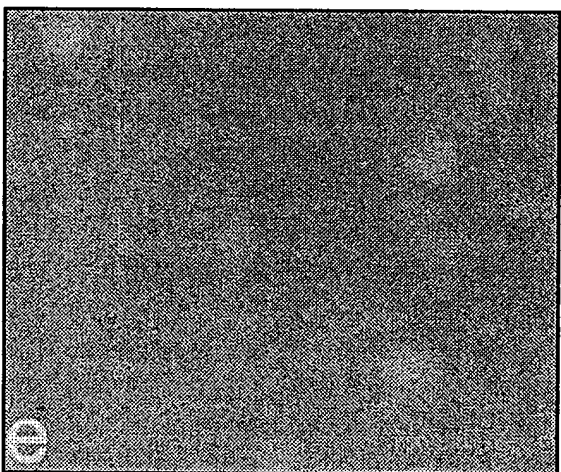


FIG. 7F



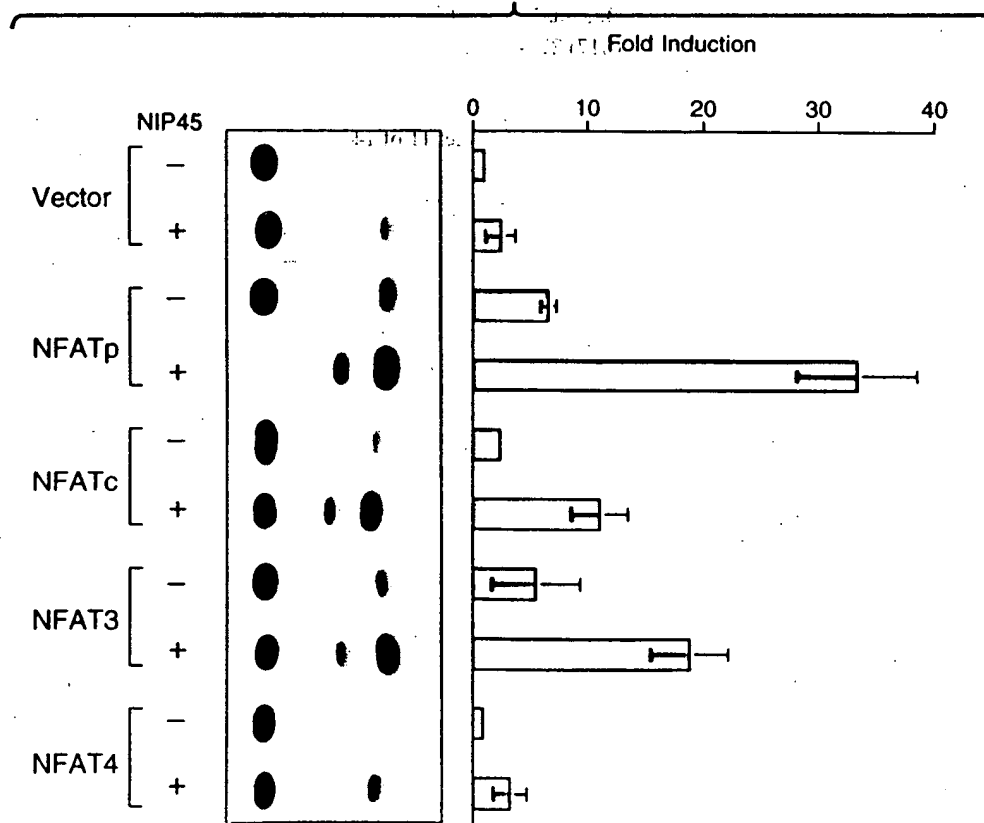
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FIG. 8

FIG. 8 shows the results of a luciferase reporter assay. The assay was performed in 293 cells transfected with the indicated plasmids. The results are shown as a bar graph of fold induction. The data show that NFATp is the most potent inducer of the luciferase reporter, followed by NFAT3 and NFATc. NFAT4 and the Vector control show no significant induction.

FIG. 8



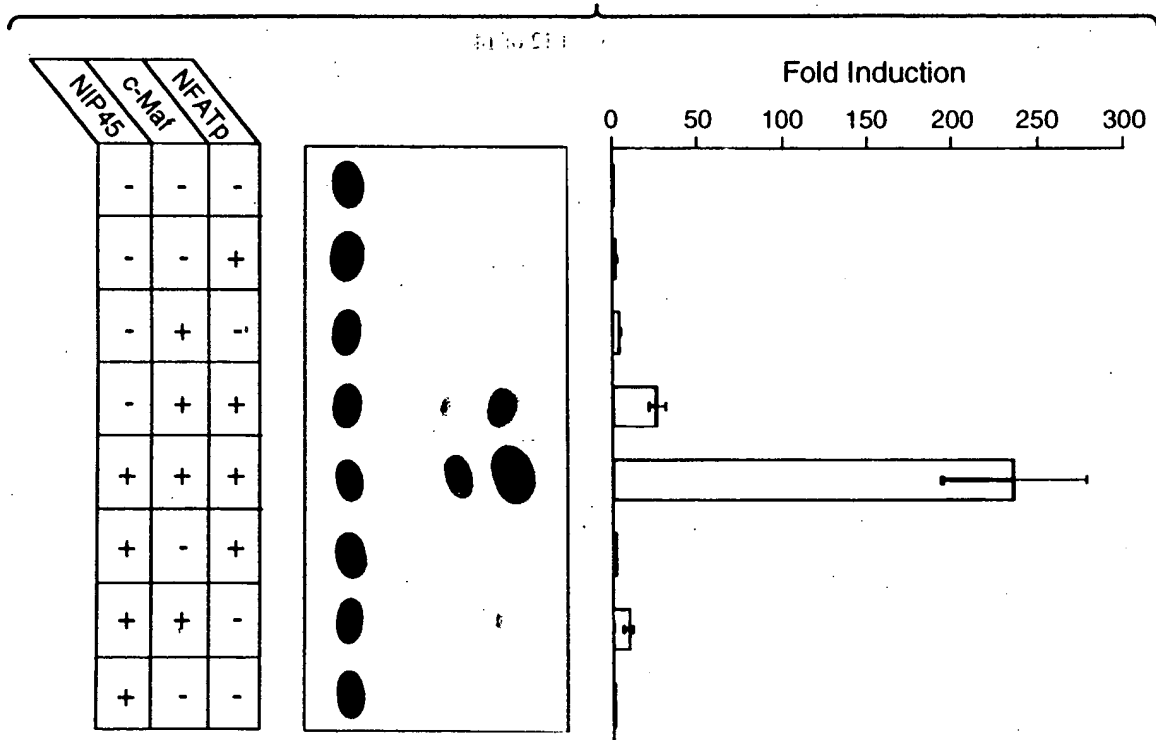
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FIG. 9



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IL-4 CONCENTRATION

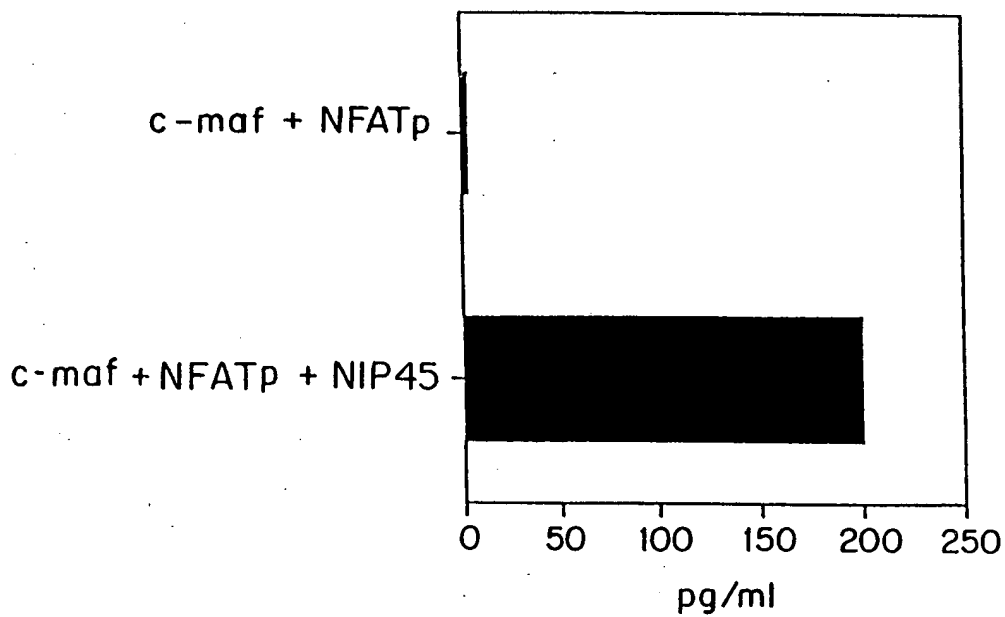


FIG. 10

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